Materials Used in the Smart Diagnosis App

1. Software & Libraries

Frontend (GUI)

PyQt5 - for building a sleek desktop interface

Installation: pip install pyqt5

API/Backend

requests - for interacting with DeepSeek API

Installation: pip install requests

json - for handling API responses or storing patient history

sqlite3 (optional) - for storing patient history in a database

2. AI/ML Integration

DeepSeek API

Used to process input symptoms and return:

- Possible diagnosis (disease names)

- Suggested CT scans

- Extra recommendations (if available)

Needed:

- DeepSeek API key

- Proper request payload structure

- Parsing logic for responses

3. Application Structure

Core Python Files

main.py - main app file (PyQt GUI)

diagnosis.py - handles DeepSeek logic & fallbacks

local_db.py (optional) - manages SQLite storage for history

translations.py (optional) - Arabic/English language dictionary

4. Design & Branding

Colors & Fonts

Dark Background: #0e0e0e, #1c1c1c

Accent Colors: Purple (#8e44ad, #732d91), Gold (#f1c40f), White (#ffffff)

Fonts: Arial or imported Google Fonts if needed

UI Elements

Title bar with logo (optional)

Symptom input box

Diagnosis result display

Language dropdown

Diagnose button

Patient history view (if implemented)